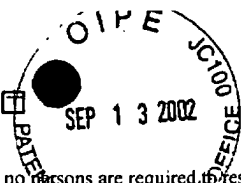


Please type a plus sign (+) inside this box →



PTO/SB/8A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<p>Substitute for form 1449A/PTO</p> <p><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b></p> <p>(use as many sheets as necessary)</p>		<b>Complete if Known</b>	
		Application Number	09/872,770
		Filing Date	June 1, 2001
		First Named Inventor	NARANG et al.
		Group Art Unit	1745
		Examiner Name	Not Yet Assigned
Sheet 1 of 15	Attorney Docket Number	A-70610	

RECEIVED  
SEP 16 2002  
TC 1700

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
M	1.	3,013,908		Luck et al.	12/1961	
	2.	3,113,049		Worsham	12/1963	
	3.	3,368,922		Salyer	02/1968	
	4.	4,192,907		Jalan et al.	03/1980	
	5.	4,242,421		Kudo et al.	12/1980	
	6.	4,262,063		Kudo et al.	04/1981	
	7.	4,316,944		Landsman et al.	02/1982	
	8.	4,373,014		Landsman et al.	02/1983	
	9.	4,390,603		Kawana et al.	06/1983	
	10.	4,395,322		Harris	07/1983	
	11.	4,407,904		Uozumi et al.	10/1983	
	12.	4,407,905		Takeuchi et al.	10/1983	
	13.	4,413,041		Hegedus	11/1983	
	14.	4,417,969		Ezzell et al.	11/1983	
M	15.	4,420,544		Lawson et al.	12/1983	

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>2</sup> (if known)			
M	16.	WO	95/27759	A1	Sri International	10/1995	
M	17.	WO	98/22989	A1	University of Southern California	05/1998	
M	18.	WO	99/54407	A2	Universitat Stuttgart	10/1999	
M	19.	WO	99/54389	A1	Universitat Stuttgart	10/1999	
M	20.	WO	00/09610	A1	The Research Foundation of State University of New York	02/2000	
M	21.	WO	00/10736	A1	Sri International	02/2000	

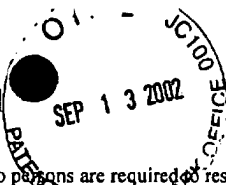
Examiner Signature	<i>[Signature]</i>	Date Considered	7/16/04
--------------------	--------------------	-----------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English Language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box → ☐



PTO/SB/8A (08-00)

Approved for use through 10/31/2002. OMB 06510031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	09/872,770
Sheet 2		of 15	Filing Date	June 1, 2001	
			First Named Inventor	NARANG et al.	
			Group Art Unit	1745	
			Examiner Name	Not Yet Assigned	
			Attorney Docket Number	A-70610	

RECEIVED  
SEP 16 2002  
TC 1700

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
JHL	22.	4,446,210		Okada et al.	05/1984	
	23.	4,447,506		Luczak et al.	05/1984	
	24.	4,456,521		Solomon et al.	06/1984	
	25.	4,476,002		Howard et al.	10/1984	
	26.	4,478,917		Fujita et al.	10/1984	
	27.	4,481,266		Littauer et al.	11/1984	
	28.	4,524,113		Lesieur	06/1985	
	29.	4,537,840		Tsukui et al.	08/1985	
	30.	4,542,079		Takeuchi et al.	09/1985	
	31.	4,562,123		Shimizu et al.	12/1985	

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>2</sup> (if known)			
JHL	32.	WO	00/22684	A3	Foster-Miller, Inc.	04/2000	
M	33.	WO	00/24796	I	Foster-Miller, Inc.	04/2000	
M	34.	WO	00/27513	A2	Axiva GMBH	05/2000	
M	35.	EP	068508	B1	Hitachi, Ltd.	09/1986	
M	36.	EP	0337626	A1	PCI Membrane Systems Limited	03/1989	
M	37.	EP	310860	A1	A. Haberkorn Gesellschaft	09/1998	
M	38.	EP	034248	A1	Henkel Kgaa	08/10981	English Abstract
M	39.	EP	0574791	B1	Aventis Research & Technologies GmbH & Co. KG	12/1999	

Examiner Signature	<i>W. R. Rattley</i>	Date Considered	7/16/04
--------------------	----------------------	-----------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English Language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

OTPE JC100  
SEP 13 2002  
PATENT MARK OFFICE

Approved for use through 10/31/2002. OMB 06510031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

**Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.**

Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	09/872,770
				Filing Date	June 1, 2001
				First Named Inventor	NARANG et al.
				Group Art Unit	1745
				Examiner Name	Not Yet Assigned
				Attorney Docket Number	A-70610
Sheet	3	of	15		

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
M	40.	4,576,877		Alfenaar	03/1986	
	41.	4,612,261		Tsukui et al.	09/1986	
	42.	4,614,692		Kajiyama et al.	09/1986	
	43.	4,614,837		Kane et al.	09/1986	
	44.	4,629,664		Tsukui et al.	12/1986	
	45.	4,643,806		Hegedus et al.	02/1987	
	46.	4,647,359		Lindstrom	03/1987	
	47.	4,670,359		Beshty et al.	06/1987	
	48.	4,673,624		Hockaday	06/1987	
	49.	4,702,973		Marianowski	10/1987	
	50.	4,716,087		Ito et al.	12/1987	
	51.	4,755,272		Plowman	07/1988	
	52.	4,761,209		Bonaventura et al.	08/1988	
	53.	4,761,349		McPheeters et al.	08/1988	
	54.	4,769,296		Sterzel	09/1988	
M	55.	4,774,152		Matsumura et al.	09/1988	

[illegible]

Examiner Signature	<i>M. H. [Signature]</i>	Date Considered	7/16/04
-----------------------	--------------------------	--------------------	---------

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English Language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.**

SEP 13 2002  
JC100 OFFICE OF THE  
TRADEMARK  
AGENT

Approved for use through 10/31/2002. OMB 06519031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE  
a collection of information unless it contains a valid OMB control number.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**Complete if Known**

*(use as many sheets as necessary)*

Sheet	4	of	15
-------	---	----	----

<b>Application Number</b>	09/872,770
<b>Filing Date</b>	June 1, 2001
<b>First Named Inventor</b>	NARANG et al.
<b>Group Art Unit</b>	1745
<b>Examiner Name</b>	Not Yet Assigned
<b>Attorney Docket Number</b>	A-70610

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
M	56.	4,774,153		Sterzel	09/1988	
	57.	4,794,054		Ito et al.	12/1988	
	58.	4,808,493		Breault	02/1989	
	59.	4,820,594		Sugita et al.	04/1989	
	60.	4,828,941		Sterzel	05/1989	
	61.	4,855,193		McElroy	08/1989	
	62.	4,865,906		Smith, Jr.	09/1989	
	63.	4,865,925		Ludwig et al.	09/1989	
	64.	4,876,115		Raistrick	10/1989	
	65.	4,937,220		Nickols, Jr.	06/1990	
	66.	4,970,128		Itoh et al.	11/1990	
	67.	4,985,386		Tsurumi et al.	01/1991	
	68.	4,988,582		Dyer	01/1991	
	69.	5,004,424		Larminie	04/1991	
	70.	5,019,463		Matsubara et al.	05/1991	

## FOREIGN PATENT DOCUMENTS

[illegible]

Examiner Signature	<i>M. R. H.</i>	Date Considered	7/16/04
-----------------------	-----------------	--------------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English Language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.

SEP 13 2002

Approved for use through 10/31/2002. OMB 06510031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

## Substitute for form 1449A/PTC

(use as many sheets as necessary)

Sheet	5	of	15
-------	---	----	----

**Complete if Known**

<b>Application Number</b>	09/872,770
<b>Filing Date</b>	June 1, 2001
<b>First Named Inventor</b>	NARANG et al.
<b>Group Art Unit</b>	1745
<b>Examiner Name</b>	Not Yet Assigned
<b>Attorney Docket Number</b>	A-70610


RECEIVED  
SEP 16 2002  
TC 1700

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
mm	71.	5,024,905		Itoh et al.	06/1991	/
	72.	5,034,288		Bossel	07/1991	
	73.	5,035,962		Jensen	07/1991	
	74.	5,061,581		Narang et al.	10/1991	
	75.	5,068,161		Keck et al.	11/1991	
	76.	5,079,107		Jalan	01/1992	
	77.	5,084,144		Reddy et al.	01/1992	
	78.	5,094,928		Dyer	03/1992	
	79.	5,102,750		Taylor	04/1992	
	80.	5,102,751		Narang et al.	04/1992	
	81.	5,132,193		Reddy et al.	07/1992	
	82.	5,171,644		Tsou et al.	12/1992	
	83.	5,178,971		Itoh et al.	01/1993	
	84.	5,183,713		Kunz	02/1993	
mm	85.	5,186,877		Watanabe	02/1993	

**FOREIGN PATENT DOCUMENTS**

[illegible]

Examiner Signature		Date Considered	7/16/04
--------------------	---	-----------------	---------

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English Language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.**

Please type a plus sign (+) inside this box → ☐

SEP 13 2002

PTO/SB/8A (08-00)

Approved for use through 10/31/2002. OMB 06510031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO TRADEMARK APPLICATION

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Application Number	09/872,770
Filing Date	June 1, 2001
First Named Inventor	NARANG et al.
Group Art Unit	1745
Examiner Name	Not Yet Assigned
Attorney Docket Number	A-70610

Sheet 6 of 15

### U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
M	86.	5,189,005		Watanabe et al.	02/1993	
	87.	5,208,207		Stonehart et al.	05/1993	
	88.	5,225,391		Stonehart et al.	07/1993	
	89.	5,234,772		Oguchi et al.		
	90.	5,234,777		Wilson	08/1993	
	91.	5,252,410		Wilkinson et al.	10/1993	
	92.	5,262,250		Watanabe	11/1993	
	93.	5,271,917		Hoffman	12/1993	
	94.	5,284,718		Chow et al.	02/1994	
	95.	5,284,878		Studer et al.	02/1994	
N	96.	5,294,317		Saito et al.	03/1994	
	97.	5,294,580		Dufner	03/1994	
	98.	5,298,343		Savadozo et al.	03/1994	
	99.	5,312,876		Dang et al.	05/1994	
	100.	5,312,895		Dang et al.	05/1994	

### FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				

Examiner Signature	<i>John R. Hatcher</i>	Date Considered	7/16/04
--------------------	------------------------	-----------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English Language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

SEP 13 2002

Approved for use through 10/31/2002. OMB 06519031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE  
a collection of information unless it contains a valid OMB control number.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

***Complete if Known***

<b>Application Number</b>	09/872,770
<b>Filing Date</b>	June 1, 2001
<b>First Named Inventor</b>	NARANG et al.
<b>Group Art Unit</b>	1745
<b>Examiner Name</b>	Not Yet Assigned
<b>Attorney Docket Number</b>	A-70610

*(use as many sheets as necessary)*

Sheet	7	of	15
-------	---	----	----

Attorney Docket Number	A-70610
---------------------------	---------

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
M	101.	5,314,760		Tsou et al.	05/1994	
	102.	5,314,762		Hamada et al.	05/1994	
	103.	5,316,643		Ahn et al.	05/1994	
	104.	5,330,860		Grot et al.	07/1994	
	105.	5,346,780		Suzuki	09/1994	
	106.	5,367,051		Narang et al.	11/1994	
	107.	5,378,508		Castro	01/1995	
	108.	5,384,208		Brand et al.	01/1995	
	109.	5,403,675		Ogata et al.	04/1995	
	110.	5,432,023		Yamada et al.	07/1995	
	111.	5,438,082		Helmer-Metzmann et al.	08/1995	
	112.	5,468,574		Ehrenberg et al.	11/1995	
	113.	5,472,799		Watanabe	12/1995	
	114.	5,480,735		Landsman et al.	01/1996	
	115.	5,488,087		Cabasso et al.	01/1996	
M	116.	5,489,563		Brand et al.	02/1996	

[illegible]

Examiner Signature	<i>Mike R. Hestley</i>	Date Considered	7/16/04
--------------------	------------------------	-----------------	---------

Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English Language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.**

SEP 13 2002

Approved for use through 10/31/2002. OMB 06519031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)				<b>Complete if Known</b> Application Number 09/872,770 Filing Date June 1, 2001 First Named Inventor NARANG et al. Group Art Unit 1745 Examiner Name Not Yet Assigned	
Sheet	8	of	15	Attorney Docket Number	A-70610

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
M	117.	5,501,915		Hards et al.	03/1996	
	118.	5,503,944		Meyer et al.	04/1996	
	119.	5,505,851		Wagener et al.	04/1996	
	120.	5,523,177		Kosek et al.	06/1996	
	121.	5,525,436		Savinell et al.	06/1996	
	122.	5,525,568		Yamaguchi et al.	06/1996	
	123.	5,540,981		Gallagher et al.	07/1996	
	124.	5,547,911		Grot	08/1996	
	125.	5,548,055		Narang et al.	08/1996	
	126.	5,561,202		Helmer-Metzmann et al.	10/1996	
N	127.	5,573,866		Van Dine et al.	11/1996	
	128.	5,576,074		Weigel et al.	11/1996	
	129.	5,599,638		Surampudi et al.	02/1997	
	130.	5,616,431		Kusunoki et al.	04/1997	
2	131.	5,631,099		Hockday	05/1997	

[illegible]

Examiner Signature	<i>[Signature]</i>	Date Considered	7/16/04
--------------------	--------------------	-----------------	---------

Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English Language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.



SEP 13 2002

Approved for use through 10/31/2002. OMB 06519031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**Complete if Known**

<b>Application Number</b>	09/872,770
<b>Filing Date</b>	June 1, 2001
<b>First Named Inventor</b>	NARANG et al.
<b>Group Art Unit</b>	1745
<b>Examiner Name</b>	Not Yet Assigned
<b>Attorney Docket Number</b>	A-70610

(use as many sheets as necessary)

Sheet	9	of	15
-------	---	----	----

Attorney Docket Number	A-70610
---------------------------	---------

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>1</sup> (if known)			
M	132.	5,633,098		Narang et al.	05/1997	
	133.	5,635,039		Cisar et al.	06/1997	
	134.	5,641,586		Wilson	06/1997	
	135.	5,643,690		Tateishi et al.	07/1997	
	136.	5,670,266		Thomas et al.	09/1997	
	137.	5,672,439		Wilkinson et al.	09/1997	
	138.	5,683,829		Sarangapani	11/1997	
	139.	5,700,595		Reiser	12/1997	
	140.	5,702,836		Ma et al.	12/1997	
	141.	5,702,838		Yasumoto et al.	12/1997	
	142.	5,723,229		Scheifers et al.	03/1998	
	143.	5,731,104		Ventura et al.	03/1998	
	144.	5,741,408		Helmer-Metzmann et al.	04/1998	
	M	145.	5,759,712		Hockaday	
146.		5,773,162		Surampudi et al.	06/1998	

[illegible]

Mr. H. H. H.

Date Considered

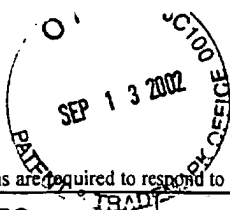
9/16/04

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English Language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.**

Please type a plus sign (+) inside this box → ☐



PTO/SB/8A (08-00)

Approved for use through 10/31/2002. OMB 06519031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Complete if Known</b>		
				Application Number	09/872,770	
Sheet		10	of	15	Attorney Docket Number	A-70610
					Examiner Name	Not Yet Assigned
					First Named Inventor	NARANG et al.
					Filing Date	June 1, 2001
					Group Art Unit	1745

RECEIVED  
 SEP 16 2002  
 TC 1700

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
✓	147.	5,789,093		Malhi	08/1998	
	148.	5,795,496		Yen et al.	08/1998	
	149.	5,798,187		Wilson et al.	08/1998	
	150.	5,804,325		Yepez	09/1998	
	151.	5,834,523		Steck et al.	11/1998	
	152.	5,834,566		Helmer-Metzmann et al.	11/1998	
	153.	5,846,615		Sharma et al.	12/1998	
	154.	5,856,036		Smotkin	01/1999	
	155.	5,858,568		Hsu et al.	01/1999	
	156.	5,863,673		Campbell et al.	01/1999	
	157.	5,874,182		Wilkinson et al.	02/1999	
	158.	5,876,867		Itoh et al.	03/1999	
	159.	5,885,338		Nigam et al.	03/1999	
	160.	5,894,038		Sharma et al.	04/1999	
	161.	5,904,740		Davis	05/1999	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office <sup>3</sup>	Kind Code <sup>2</sup> (if known)			

Examiner Signature		Date Considered	7/16/04
--------------------	--	-----------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English Language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

SEP 13 2002  
JC100 OFFICE  
PATR

Approved for use through 10/31/2002. OMB 06519031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**Complete if Known**

Application Number	09/872,770
Filing Date	June 1, 2001
First Named Inventor	NARANG et al.
Group Art Unit	1745
Examiner Name	Not Yet Assigned
Attorney Docket Number	A-70610

*(use as many sheets as necessary)*

Sheet	11	of	15
-------	----	----	----

Attorney Docket Number	A-70610
------------------------	---------

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
M	162.	5,906,716				
	163.	5,916,699		Thomas et al.	06/1999	
	164.	5,916,702		Marucchi-Soos et al.	06/1999	
	165.	5,922,487		Watanabe et al.	07/1999	
	166.	5,928,806		Olah et al.	07/1999	
	167.	5,945,231		Narayanan et al.	08/1999	
	168.	5,952,119		Wilson	09/1999	
	169.	5,954,928		Kishi et al.	09/1999	
	170.	5,958,616		Salinas et al.	09/1999	
	171.	5,973,025		Nigam et al.	10/1999	
	172.	5,976,725		Gamo et al.	11/1999	
	173.	5,980,998		Sharma et al.	11/1999	
	174.	5,981,095		Leddy et al.	11/1999	
	175.	5,984,986		Wiesheu et al.	11/1999	
	176.	5,985,942		Steck et al.	11/1999	

[illegible]

**Examiner  
Signature**

Date Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English Language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.



SEP 13 2002

Approved for use through 10/31/2002. OMB 06519031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE  
A collection of information unless it contains a valid OMB control number

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<p>Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid control number.</p> <p>Substitute for form 1449A/PTO</p> <p><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b></p> <p><i>(use as many sheets as necessary)</i></p>				<p><b>Complete if Known</b></p>	
<p>Application Number</p>				<p>09/872,770</p>	
<p>Filing Date</p>				<p>June 1, 2001</p>	
<p>First Named Inventor</p>				<p>NARANG et al.</p>	
<p>Group Art Unit</p>				<p>1745</p>	
<p>Examiner Name</p>				<p>Not Yet Assigned</p>	
<p>Attorney Docket Number</p>				<p>A-70610</p>	
Sheet	13	of	15	<p>RECEIVED SEP 16 2002 TC 1706</p>	

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
W	192.	6,071,635		Carlstrom, Jr.	06/2000	
	193.	6,074,773		Wilkinson et al.	06/2000	
	194.	6,080,501		Kelley et al.	06/2000	
	195.	6,080,503		Schmid et al.	06/2000	
	196.	6,090,193		Nigam et al.	07/2000	
	197.	6,093,502		Carlstrom, Jr. et al.	07/2000	
	198.	6,100,600		Pflanz	08/2000	
	199.	6,106,965		Hirano et al.	08/2000	
	200.	6,110,613		Fuller	08/2000	
	201.	6,110,616		Sheikh-Ali et al.	08/2000	
	202.	6,117,222		Nigam et al.	09/2000	
	203.	6,117,579		Gyoten et al.	09/2000	
	204.	6,127,055		Simmons, Jr.	10/2000	
	205.	6,171,444	B1	Nigam	01/2001	
W	206.	6,241,787	B1	Nigam	06/2001	

[illegible]

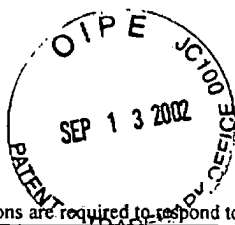
Examiner Signature	<i>[Signature]</i>	Date Considered	7/16/04
--------------------	--------------------	-----------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English Language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box → ☐



PTO/SB/8A (08-00)

Approved for use through 10/31/2002. OMB 06519031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Complete if Known</b>	
Application Number		09/872,770			
Filing Date		June 1, 2001			
First Named Inventor		NARANG et al.			
Group Art Unit		1745			
Examiner Name		Not Yet Assigned			
Attorney Docket Number		A-70610			
Sheet	14	of	15		

RECEIVED  
 SEP 16 2002  
 TC 1700

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
M	207.	6,309,772	B1	Zuber et al.	10/2001	
	208.	6,326,097	B1	Hockaday	12/2001	
	209.	6,326,099	B1	Schubert	12/2001	
	210.	2002/0045085	A1	Formato et al.	04/2002	
	211.	2002/0091225	A1	McGarth et al.	07/2002	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>2</sup> (if known)				

Examiner Signature		Date Considered	7/16/04
--------------------	--	-----------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English Language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

SEP 13 2002

PTO/SB/8B (08-00)

Approved for use through 10/31/2002. OMB 06510031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)				Complete if Known	
				Application Number	09/872,770
				Filing Date	June 1, 2001
				First Named Inventor	NARANG et al.
				Group Art Unit	1745
				Examiner Name	Not Yet Assigned
Sheet	15	of	15	Attorney Docket Number	A-70610

RECEIVED  
SEP 18 2002  
TC 1700

## OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

[illegible]

Examiner Signature	<i>Mr. [Signature]</i>	Date Considered	7/15/04
-----------------------	------------------------	--------------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English Language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231.

DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.